

**IN THE CLAIMS:**

1. (Currently Amended) A light-sensitive detector comprising:

a photodetector which is formed in a semiconductor chip;

a package on which said ~~photodetector~~ semiconductor chip is directly mounted;

light-transmissible means for making detection light incident on a light-receiving surface of said photodetector; and

means, formed in said package at a position adjacent to said ~~photodetector~~ semiconductor chip, for allowing transmission of light rays substantially parallel to said detection light therethrough.

2. (Original) A light-sensitive detector according to claim 1, wherein said means allowing transmission of said light rays therethrough is a light-transmissible window including an aperture formed in a part of said package made of an opaque member, and a light-transmissible member sealing said aperture.

3.(Original) A light-sensitive detector according to claim 1, wherein said means allowing transmission of said light rays therethrough is a light-transmissible member which forms at least one part of said package.

4. (Original) A light-sensitive detector according to claim 1, wherein said package and said light-transmissible means for making detection light incident on said light-receiving surface of said photodetector are integrally molded as a light-transmissible member.

1 5. (Currently Amended) An optical demultiplexer comprising:

2 a diffraction grating;

3 a light-sensitive detector; and

4 an optical system for making demultiplexed light containing a plurality of  
5 wavelengths incident on the diffraction grating to obtain demultiplexed light, and  
6 for making the demultiplexed light incident on a light-sensitive detector; wherein  
7 said light-sensitive detector includes:

8 a plurality of photodetectors which are formed in a semiconductor chip,

9 a package on which said ~~photodetectors are~~ semiconductor chip is directly  
10 mounted;

11 light-transmissible means for making said demultiplexed light incident on  
12 light-receiving surfaces of said photodetectors; and

13 means, formed in said package at a position adjacent to said  
14 ~~photodetectors~~ semiconductor chip, for allowing transmission of said multiplexed  
15 light substantially parallel to said demultiplexed light so that said demultiplexed  
16 light is made incident on said diffraction grating through said means for allowing  
17 transmission of said multiplexed light.

1 6. (Original) An optical demultiplexer according to claim 5, wherein said means for  
2 allowing transmission of multiplexed light is a light-transmissible window  
3 including an aperture formed in a part of said package made of an opaque member,  
4 and a light-transmissible member sealing said aperture.

1 7. (Original) An optical demultiplexer according to claim 5, wherein said means for  
2 allowing transmission of multiplexed light is a light-transmissible member which  
3 forms at least one part of said package.

1 8. (Original) An optical demultiplexer according to claim 5, wherein said package  
2 and said light-transmissible means for making demultiplexed light incident on said  
3 light-receiving surfaces of said photodetectors are integrally molded as a light-  
4 transmissible member.

1 9.(Original) An optical demultiplexer according to claim 5, wherein said  
2 multiplexed light containing a plurality of wavelengths is supplied from an end  
3 surface of an optical fiber mounted close to said means for allowing transmission of  
4 multiplexed light.

1 10. (Currently Amended) A light-sensitive detector comprising:  
2 a package having a first side and a second side opposite from the first side;  
3 at least one photodetector which is formed in a semiconductor chip, and  
4 said semiconductor chip being sealingly disposed within said package;  
5 a light transmissible portion defining a first optical path extending from said  
6 first side to said second side, and a second optical path extending from said second  
7 side to said photodetector.

1 11. (Original) A light-sensitive detector according to claim 10, wherein said light  
2 transmissible portion includes an aperture formed through said first side of said  
3 package, a first light transmissible member sealing the aperture, and a second light  
4 transmissible member provided as said second side of said package.

1 12. (Original) A light-sensitive detector according to claim 10, wherein said light  
2 transmissible portion includes a first light transmissible member provided as said  
3 first side of said package and a second light transmissible member provided as said  
4 second side of said package.

1 13. (Original) A light-sensitive detector according to claim 10, wherein said light  
2 transmissible portion includes a light-transmissible resin molding the photodetector  
3 therein and forming at least a part of said package.

1 14. (Original) A light-sensitive detector according to claim 10, wherein said first  
2 optical path is substantially parallel to said second optical path.